

### **ADDENDUM NO. 3**

#### **TRANSPORTATION CENTER PARKING GARAGE REPAIR & PREVENTATIVE MAINTENANCE PHASE 1 (15% MBE & 5% WBE PARTICIPATION) JULY 18, 2018**

#### **TO ALL BIDDERS:**

This addendum, including all articles and corrections listed below, shall be taken into account in preparing the bid forms and shall become part of the Contract.

All bidders are requested to attach this Addendum to the Bid Form and return to the City.

#### **ITEM NO. 1 – BID FORM**

- i) Remove Page 3a, 3b, 3c, and 4 in their entirety and replace with attached Page 3a, 3b, 3c, 3d, and 4. Updates in bold.
  - a) The quantity for Item #7, “Rebuild Spalled Portions of Ramp Beams at Bearing” has been changed from **3 to 6 each**.
  - b) Remove Item #9, “Replacement of Deteriorated Stucco Façade at Heliport Waiting Room with EIFS” from the base bid and bid as an Add Alternate #4.
    - i) Bid Item No.’s have been updated.
  - c) Add Alternate #3 language has changed from Base Bid Item #10 to Base Bid Item #9. Updated Page 3h clarifies language to provide pricing for the additional cost for the use of this hybrid system.
  - d) Added Add Alternate #6, “Replacement of Non-LED Lighting on Floors 4 to Roof.”
- ii) Remove Pages 3d through 3i in their entirety and replace with attached Pages 3e through 3j.
  - a) Updated Bid Item No.’s and order based upon updates to Pages 3a through 3d.

#### **ITEM NO. 2 – CLARIFICATIONS**

- i) Bid Item #12, “Replacement of Compression Seals at Stair Towers/Elevator Core – Roof Level” is restricted to the roof level only. Drawing Sheets incorrectly show this work on all levels.

#### **QUESTION NO 1:**

**QUESTION:** Request for an extension to the bid opening date and a waiver of the WBE & MBE requirements.

**ANSWER:** The bid opening date has been revised to July 26, 2018 per Addendum No. 1 dated July 13, 2018. There will be no waiver to the WBE & MBE requirements. The contractor shall call Mr. Andrew Chow at 937-333-1439 with the Human Relations Council, or the main telephone number at 937-333-1403 in regards to meeting the requirements and/or instructions on the waiver process.

Transportation Center Parking Garage Repair & Preventative Maintenance Phase 1  
July 18, 2018

Keith Steeber, City Engineer  
Division of Civil Engineering

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#### **QUESTION NO 2:**

QUESTION: Bid Form Item #7 “Rebuild Spalled Portions of Ramp Beams at Bearing” has 3 locations, but are not shown on the drawings.

ANSWER: See updated Drawing Sheets R-6 to R-9 from Addendum No. 2 dated July 13, 2018. The quantity has also been adjusted from 3 to 6 each. All locations require 12” replacement of the wall section and shoring to grade is required.

#### **QUESTION NO 3:**

QUESTION: Should Note #2 on Drawing Sheet R-16 read Sequence #2A & #2B may be performed simultaneously?

ANSWER: Correct, see updated Drawing Sheet R-16 from Addendum No. 2 dated July 13, 2018.

#### **QUESTION NO 4:**

QUESTION: In regards to Reference Detail 5/R-10, are these repairs to only occur towards the inner wall where one could typically stand without additional access? That is, not to the exterior façade and/or the center interior side of the helix ramp which would require additional access, correct?

ANSWER: Generally yes, however there are some repair locations, primarily at some of the ramp soffits that will require lifts or other height means for access.

#### **QUESTION NO 5:**

QUESTION: Please clarify that shoring is not required at the partial depth concrete repairs and not to be included in the bid. If shoring is required, but due to locations that are not fully identified on the plans, how are bidders to identify the amounts of shoring needed so that we bid the same thing. Please consider a shoring allowance in the bid if they are needed at the partial depth repairs.

ANSWER: Partial depth repairs do not typically require shoring however, some shoring posts should be available on site to address any unforeseen conditions.

#### **QUESTION NO 6:**

QUESTION: Do we need to apply waterproofing on partial depth repair locations that are currently coated?

ANSWER: Yes, new waterproofing will need to be provided over repairs located at areas that have an existing waterproofing membrane.

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#### **QUESTION NO 7:**

QUESTION: In reference to Bid Item #18 (now Bid Item #17), “Miscellaneous Work”, what is the slab thickness for the full depth repairs?

ANSWER: Slab thickness is 5” to 6” at parking decks and 7” to 8” at ramps.

#### **QUESTION NO 8:**

QUESTION: In reference to Bid Item #18 (now Bid Item #17), “Miscellaneous Work”, will shoring be required at full depth repairs, and if so, at what height of shoring are we to include in bid for this and how many locations?

ANSWER: See Question NO 7. Shoring may be needed for forming but is not needed structurally.

#### **QUESTION NO 9:**

QUESTION: In reference to Bid Item #18 (now Bid Item #17), “Miscellaneous Work”, the parapet wall located next to column lines D-8 is not 4”. Please clarify and provide more detail or description on repairs.

ANSWER: The parapet wall to be replaced is approximately 20” long and is located near CL D8.

#### **QUESTION NO 10:**

QUESTION: In reference to Bid Item #18 (now Bid Item #17), “Miscellaneous Work”, please include an allowance for MEP relocations.

ANSWER: A reasonable amount of cost shall be assumed per work item to address occasional relocation/temporary removal of electrical conduit, simple junction boxes and light fixtures. This work shall be considered incidental to new work items.

#### **QUESTION NO 11:**

QUESTION: What are the size and number of strands to include in the bid for Bid Item Add Alternate #2, “Repair of P/T Tendons”? Also, there are multiple P/T types of repairs detailed, how many SF of full depth repairs should we include for each repair?

ANSWER: Assume P/T tendon is ½” diameter 7 strand. Opening size requirements will need to be determined on a case by case basis and will partly depend on the discretion of the contractor for means/methods and the ease for construction. Assume a **MINIMUM** 12SF opening at each location for the purposes of bidding.

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#### **QUESTION NO 12:**

QUESTION: Is the Contractor required to access and sound all of the underside concrete of all helical ramps at all locations and also under the first floor level where accessible and open to view from SOG to locate unsound concrete? Is sounding of concrete required at any interior occupied space locations?

ANSWER: The Engineer and Contractor will mark all repair areas together in the field. The entire 1<sup>st</sup> level ramp soffits will be sounded and repaired. The Contractor is to provide access for the Engineer to the potential work areas for the purposes of close up sound testing and marking of the repairs.

#### **QUESTION NO 13:**

QUESTION: Please consider approval of Sika traffic coating systems (*Sikalastic® 22 Lo-Mod Hybrid Traffic System & Sikalastic® 720/745 AL Traffic System*) as an equal to specified materials.

ANSWER: Product substitution requests will be considered only after the Contractor is selected and once submittals are provided. The Engineer reserves the right to approve or reject any and all substitution requests. Exposed epoxy top coat is not approved.

#### **QUESTION NO 14:**

QUESTION: Reference specification 011000-4/1.13 warranty states 2 years. Reference specification 00100-6/1.09 states 5 year corrective warranty. Please clarify.

ANSWER: Applicable specification sections have been revised to streamline the 2 year warranty requirements. These were included in Addendum No. 2, dated July 13, 2018.

#### **QUESTION NO 15:**

QUESTION: Please clarify if any dates & durations of special events that may affect construction activity for duration of project.

ANSWER: The garage will still be utilized by all current tenants and will remain open to general population during construction. A schedule with events through January 1, 2019 will be given once the Contractor is selected. The Contractor is to assume that we will have to 'work around' existing users and events with large attendance predicted. It is anticipated that there may be between 10-15 larger events through January 1, 2019.

#### **QUESTION NO 16:**

QUESTION: Will water and electric be provided by the Owner at the site for Contractor use?

ANSWER: Yes both services will be provided.

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#### **QUESTION NO 17:**

QUESTION: Please clarify if helipad area, within fence area on roof, is to get new waterproofing and striping paint. Also, please clarify on Drawing Sheet R-5 in regards to expansion joint and concrete repairs within this area. Will there be special requirements for work within this area?

ANSWER: Drawing Sheet R-5 has been updated (Addendum No. 2, dated July 13, 2018) to clarify extents of helipad and membrane application. Only the expansion joint seal replacement is to be performed within the helipad footprint. Concrete repairs shown on this sheet are overhead, to be performed from the floor below. There are no special requirements for work within this area however; the Contractor must provide a ten day notice prior to work to close the helipad.

#### **QUESTION NO 18:**

QUESTION: Reference to Bid Item #9 (now Add Alternate No. 4, "Heliport Waiting Room Façade Replacement"), the yellow signage area, is this the area to have the signs removed and receive the EIFS system behind prior to reinstalling the sign panels?

ANSWER: The yellow area is stucco and requires replacement. The existing lettering is not required to be reinstalled and a standard color sample will be submitted to Engineer for approval.

#### **QUESTION NO 19:**

QUESTION: The exterior spandrel panel at 5<sup>th</sup> level column line, D8, next to the ramp is not identified on the drawing as repair. Please verify if this location is part of the contract and if so please provide repair detail of what will be required to repair it (i.e. the vertical spandrel to be replaced and full depth repair of the slab required, which will require exterior façade access to the location).

ANSWER: The location comprises the parapet wall and full depth replacement work included in Bid Item #17, "Miscellaneous Work & General Conditions" and is shown on Drawing Sheet R-5, which was updated in Addendum No. 2, dated July 13, 2018.

#### **QUESTION NO 20:**

QUESTION: Reference detail 2/R-13 Expansion Joints (3" typical at slabs), please verify bid is to be based on 3" joint widths at slabs. Expansion joint at column line F from columns 11 to 17 at helipad are 4" wide.

ANSWER: The expansion joints are +/- 3" and should be assumed to vary. Each joint seal should be sized based on actual and detailed field measurements and approved by the Manufacturer.

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#### **QUESTION NO 21:**

QUESTION: Reference detail 2/R-13; please clarify the extent of the expansion joint replacement when floor expansion joint meets vertical wall spandrel panels at the ends. The existing expansion joint extends approximately 30" up the back of the spandrel. How far up will the new expansion joint go?

ANSWER: Turn up new winged seal a minimum of 6" into the vertical expansion joint and replace the sealant up and across the top of the wall.

#### **QUESTION NO 22:**

QUESTION: Bid Item #18 (now Bid Item #17, "Miscellaneous Repairs & General Conditions) rebuilds 44" of long displaced section of parapet wall at the roof level. Please clarify what this is and provide a repair detail.

ANSWER: This item should read approximately 20", not 4". Attached Bid Form Page 3j updates this change. The area of concern is located at CL D8 and the repair detail is located at the end of this addendum.

#### **QUESTION NO 23:**

QUESTION: Please verify that new pavement markings are only required at locations receiving new traffic coating and only touch up of the existing markings at the lower levels are only the portions of markings where removed at repair locations is required.

ANSWER: This is correct. All pavement markings shall be placed if the area is receiving a new traffic coating or areas of repairs. Add Alternate No. 5, "Restriping the Remaining Areas of the Garage" shall apply pavement markings to restripe all other pavement markings within the garage that is not impacted by this contract.

#### **QUESTION NO 24:**

QUESTION: Please clarify if any work is to be completed above the roadway (East Fifth Street) that will require temporary road closures and access to underside of the slab.

ANSWER: There is work to be performed in this area but it should not warrant a full road closure. Should the Contractor need access to the overhead areas from underneath on East Fifth Street, the Contractor shall erect all necessary maintenance of traffic control devices for lane closures.

**ADDENDUM NO. 3**

**TRANSPORTATION CENTER PARKING GARAGE REPAIR & PREVENTATIVE  
MAINTENANCE PHASE 1**

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**QUESTION NO 25:**

QUESTION: There is no reference to the Contractor providing heat and maintenance of required ambient temperatures. Can there be a heating allowance set up in the bid, can there include a weekly unit price for the Contractor to supply heat, or will the Owner provide temporary heating as needed during this project? If heating is not part of the bid and shutdowns of work are required during the winter due to cold temperatures, will the completion date be extended due to durations of inclement weather?

ANSWER: Each Contractor is to determine if winter work is required to achieve the target completion date. This would include heating, barriers, etc. as needed. The completion date is firm and will not be extended.

**QUESTION NO 26:**

QUESTION: It was mentioned during the pre-bid meeting that permits will not be required. Please confirm that no permits will be needed (i.e. building permit, electrical permit).

ANSWER: No permits will be required for this project.

**QUESTION NO 27:**

QUESTION: Please specify the type of barriers required throughout the course of this project.

ANSWER: The Contractor shall supply a sufficient amount of barricades, barriers, construction fencing, caution tape, closure signs, detour signs, etc. to delineate the separation of work zones and areas open to the public.

**QUESTION NO 28:**

QUESTION: Can concrete removals be accomplished by hydro demolition?

ANSWER: Hydrodemolition is not an acceptable means for concrete removal.

**QUESTION NO 29:**

QUESTION: Are we able to use a city hydrant to fulfill our gallon per minute needs?

ANSWER: Yes, however a hydrant meter must be rented from the Department of Water. For more information on this process and the necessary deposit and permit fees, please contact Mr. Mark Boucher at 937-333-6804.

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**QUESTION NO 30:**

**QUESTION:** Please clarify what liquidated damages apply.

**ANSWER:** Please refer to the City of Dayton, Ohio Construction and Material Specifications section 116.06, "Liquidated Damages" for more information. An online version can be found here: <http://www.daytonohio.gov/DocumentCenter/View/706/Construction-and-Material-Specifications-PDF?bidId>.

**QUESTION NO 31:**

**QUESTION:** Are companies with less than 50 employees exempt from the Affirmative Action requirements?

**ANSWER:** No. All companies, no matter the size, must follow these requirements. For more information on the requirements and/or the Affirmative Action Assurance Certification process, please contact the Human Relations Council at 937-333-1403.

**QUESTION NO 32:**

**QUESTION:** In the drawing coating notes, it states to pressure wash clean and in the specification scopes of work it states to perform a heavy shot blast prep for the traffic coating install. Can you please clarify if only the heavy shot blast prep will be required as per the manufacturer's recommendations or if both should be performed?

**ANSWER:** Provide shot blast cleaning of horizontal surfaces, pressure wash or sand blast cleaning of vertical surfaces.

**QUESTION NO 33:**

**QUESTION:** On drawing R-1 and R-5 there note 8 notes shown on the drawings, but no description for note 8. Should this be note 8 and if so, what is note 8?

**ANSWER:** Coded note 8 is an error. The note should be 6 referring to EJ seal replacement.

**QUESTION NO 34:**

**QUESTION:** Detail 5/R-10, what is the frequency that the SS rods should be installed?

**ANSWER:** 6" to 8" O.C., staggered.



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#### **TRANSPORTATION CENTER PARKING GARAGE REPAIR & PREVENTATIVE MAINTENANCE PHASE 1 (15% MBE & 5% WBE PARTICIPATION) JULY 18, 2018**

##### **QUESTION NO 35:**

QUESTION: On drawing R-11 the detail notes concrete delamination to be removed to sound concrete. Can you please clarify if this is part of the unit price quantity repairs or the intent is to remove a constant strip of concrete adjacent the spandrel beams on the ramps?

ANSWER: Removal to sound concrete, which is assumed 1/2" to 3/4" everywhere and deeper at locations of existing spalls and delaminations which are shown schematically on the repairs detail. There are no "strips" of sound concrete removal.

##### **QUESTION NO 36:**

QUESTION: In detail 3/R-13 compression expansion joints are shown, but we did not see this material specified in specification 07 91 00 Expansion Joint Seals. Is it listed under a different specification, or can you please provide us a specification for this expansion joint material?

ANSWER: New specification section was provided in Addendum #2 dated July 13, 2018.

##### **QUESTION NO 37:**

QUESTION: On the enlarged ramp drawings, it notes that netting is to be installed on the underside of the ramp. Are there any specifications or requirements for the netting that is to be installed?

ANSWER: Polyester debris netting with 1/2" or smaller openings. Demolition may also be performed at nights or weekends, when the ramps can be completely closed in lieu of using netting.

##### **QUESTION NO 38:**

QUESTION: Under the item #8 scope of work in the specifications, it refers to detail 7/R-10, but there is no detail 7/R-10 in the drawings. Can you please provide us detail for item #8 Scaled Concrete Repairs?

ANSWER: Revised Drawing Sheet was sent as part of Addendum #2 dated July 13, 2018.

##### **QUESTION NO 39:**

QUESTION: In detail 3/R-10, can you please clarify if all horizontal repairs should be mounded 1" above the existing finished floor elevation or if this is to occur just at locations with shallow tendons or steel reinforcing?

ANSWER: Only locations with existing shallow reinforcement.

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**QUESTION NO 40:**

QUESTION: Item #14 “Replacement of Selected Slab Sealants”, are drawing notes 7 part of this unit price or is this unit price above and beyond what is currently shown on the drawings?

ANSWER: This is part of the unit price for this item. This item is now Bid Item #13, “Replacement of Selected Slab Sealants.”

**QUESTION NO 41:**

QUESTION: Can you provide a linear feet quantity for the amount of caulking required at the new waterproofing? If not, can you provide dates or times in which the garage and the ramps can be closed for Contractors to safely field measure these quantities?

ANSWER: The scale on the drawing is accurate enough to sufficiently scale of the estimated length of caulking needed for this work. The Contractor is more than welcome to visit the site to field measure lengths; however the ramps and the garage cannot be closed for this work.

**ITEM NO. 3 – PARAPET WALL REPAIR DETAIL**

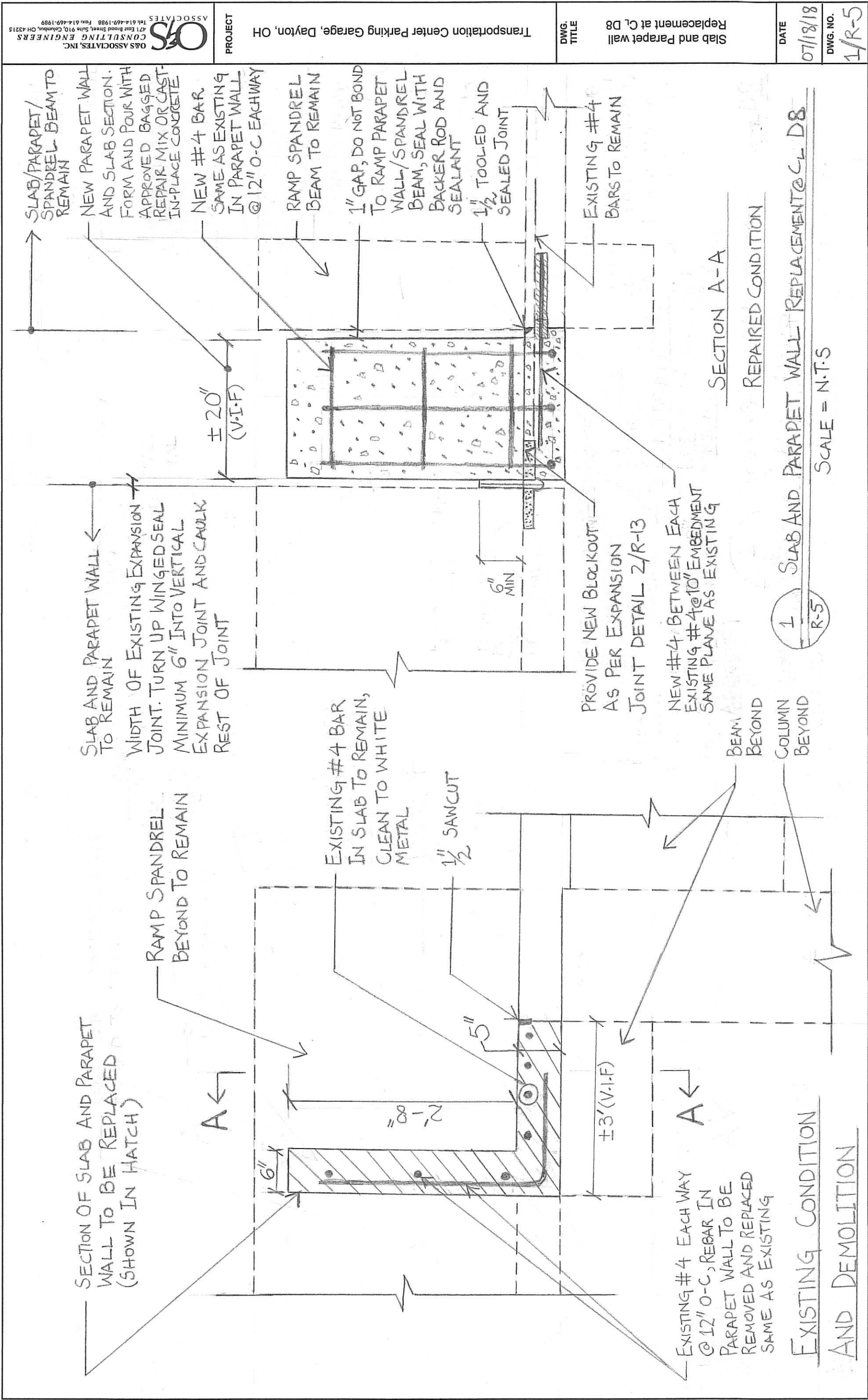
See attached Drawing Sheet 1/R-5 for this detail.

Transportation Center Parking Garage Repair & Preventative Maintenance Phase 1

July 18, 2018

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**TRANSPORTATION CENTER PARKING GARAGE REPAIR**  
**& PREVENTIVE MAINTENANCE PHASE 1**  
**(15% MBE 5% WBE PARTICIPATION)**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
<b>GENERAL CONDITIONS</b>					
1	New Concrete Overlay at Ramps	1	LUMP		
2	Partial Depth Repairs	5,000	S.F.		
3	Vertical Patch Repairs, Per Detail 3/R-10	1,085	S.F.		
4	Overhead Patch Repairs, Per Detail 1/R-10	4,000	S.F.		
5	Deep Patch Repairs, Avg. Depth: 8", Similar to Detail 1/R-10	50	S.F.		
6	Vertical/Overhead Patch Repairs at Locations of Beam PT Anchors at Columns	350	EA		
7	<b>Rebuild Spalled Portions of Ramp Beams at Bearing</b>	<b>6</b>	<b>EA</b>		
8	Scaled Concrete Repairs	5,000	S.F.		
<b>PREVENTIVE MAINTENANCE &amp; WATERPROOFING</b>					
9	New Traffic Bearing Waterproofing Membrane over Ramp Floor Slabs/New Bonded Topping: Poly-Urethane System	44,000	S.F.		
10	New Traffic Bearing Waterproofing Membrane over the Roof Level	70,000	S.F.		
11	Replacement of Bellows Type Seals along Floor Slabs with new Winged Type Seals	1,050	L.F.		
12	Replacement of Compression Seals at Stair Towers/Elevator Core - Roof Level	275	L.F.		
13	Replacement of Selected Slab Sealants	5,500	L.F.		
14	Rout and Seal Selected Floor Slab Cracks	7,500	L.F.		
<b>ELECTRICAL: LIGHTING</b>					

**Bid Form (Continued)****TRANSPORTATION CENTER PARKING GARAGE REPAIR  
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<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
<b>15</b>	<b>Replacement of Existing Non-LED Fixtures with new LED Lighting on Floors 1 to 3</b>	<b>1</b>	<b>LUMP</b>		
	<b>GENERAL CONDITIONS</b>				
16	Mobilization & Demobilization	1	LUMP		
17	Miscellaneous Work & General Conditions	1	LUMP		
18	Payment & Performance Bond	1	LUMP		
<b>TOTAL BASE BID</b>				<b>\$</b>	

**TRANSPORTATION CENTER PARKING GARAGE REPAIR  
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In determining the lowest and best bid the City Commission may give consideration to the following alternate bids:

**ALTERNATE NO. 1**  
**CONTINGENCY ALLOWANCE**

This Alternate is for a "CONTINGENCY ALLOWANCE" to be used in the event of unforeseen work which must be undertaken to complete this project. The work could be as additional quantities to the bid items or as non-bid items. The amount of this "ALLOWANCE" may vary as determined by the Engineer, but shall not exceed the maximum of **\$300,000.00.**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL \$</u></b>
SPL	Contingency Allowance	1	LUMP	\$ 300,000.00	\$ 300,000.00
<b>TOTAL ALTERNATE NO. 1 CONTINGENCY ALLOWANCE</b>				<b>\$</b>	<b>300,000.00</b>

**ALTERNATE NO. 2**  
**REPAIR OF P/T TENDONS**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
SPL	Repair of P/T Tendons	5	EA		
<b>TOTAL ALTERNATE NO. 2 REPAIR OF P/T TENDONS</b>				<b>\$</b>	

**ALTERNATE NO. 3**  
**ALTERNATE MATERIAL FOR BASE BID ITEM #9**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
9A	Poly-Urethane/Epoxy Hybrid System	44,000	S.F.		
<b>TOTAL ALTERNATE NO. 3 ALTERNATE BASE BID ITEM #9</b>				<b>\$</b>	

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**ALTERNATE NO. 4  
HELIPORT WAITING ROOM FAÇADE REPLACEMENT**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
20	Replacement of Deteriorated Stucco Façade at Heliport Waiting Room with EIFS	1	LUMP		
TOTAL ALTERNATE NO. 4 HELIPORT WAITING ROOM FAÇADE REPLACEMENT				\$	

**ALTERNATE NO. 5  
RESTRIPING THE REMAINING AREAS OF THE GARAGE**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
21	Restriping of Floor Slabs not Scheduled for New Traffic Bearing Membranes and/or Concrete Work	1	LUMP		
TOTAL ALTERNATE NO. 5 RESTRIPIING THE REMAINING AREAS OF THE GARAGE				\$	

**ALTERNATE NO. 6  
REPLACEMENT OF NON-LED LIGHTING ON FLOORS 4 TO ROOF**

<b><u>ITEM NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>EST. QUANT.</u></b>	<b><u>UNIT</u></b>	<b><u>UNIT PRICE</u></b>	<b><u>TOTAL</u></b>
22	Replacement of Existing Non-LED Fixtures with new LED Lighting on Floors 4 - Roof	1	LUMP		
TOTAL ALTERNATE NO. 6 REPLACEMENT OF NON-LED LIGHTING ON FLOORS 4 TO ROOF				\$	

The consideration to be paid for the performance of the Contract of the above described project is provided as follows:  
 This information provides for the issuance of the tax-exempt form for the purchase of materials for this project.

<b><u>DESCRIPTION</u></b>	<b><u>CONSIDERATION FOR MATERIALS</u></b>	<b><u>CONSIDERATION FOR OBLIGATIONS</u></b>	<b><u>TOTAL \$</u></b>
TOTAL BASE BID	\$ _____	\$ _____	\$ _____
TOTAL ALT. NO. 1 (CONTINGENCY ALLOWANCE)	\$ -	\$ 300,000.00	\$ 300,000.00
TOTAL ALT. NO. 2 (REPAIR OF P/T TENDONS )	\$ _____	\$ _____	\$ _____
TOTAL ALT. NO. 3 (ALTERNATE MATERIAL FOR BASE BID ITEM #9)	\$ _____	\$ _____	\$ _____
TOTAL ALT. NO. 4 (HELIPORT WAITING ROOM FAÇADE REPLACEMENT)	\$ _____	\$ _____	\$ _____
TOTAL ALT. NO. 5 (RESTRIPING THE REMAINING AREAS OF THE GARAGE)	\$ _____	\$ _____	\$ _____
TOTAL ALT. NO. 6 (REPLACEMENT OF NON-LED LIGHTING ON FLOORS 4 TO ROOF)	\$ _____	\$ _____	\$ _____

The time of completion fixed by the City is May 13, 2019.

Following are the names of all persons, firms, and corporations interested in the above bid as principals. If none, state that  
 “No person or party other than the bidder is interested in this Bid.”

<b>NAME</b>	<b>ADDRESS</b>
_____	_____
_____	_____
_____	_____
_____	_____



**PROPOSED PRICE****Scope of Work (Summary)**

The scope of work consists of selected structural repairs and preventive maintenance of the Transportation Center Parking Garage located in Dayton, Ohio. Work includes complete restoration and waterproofing of the helical ramps and the roof level of the garage, as well as structural repair and limited waterproofing repairs of the lower supported floor slabs of the garage. Ramp repairs include provisions for a new bonded concrete topping and new waterproofing membrane, overhead and vertical concrete repairs, replacement of expansion joint seals, etc. Repairs of the roof level include scaled concrete repairs, concrete patch repairs and application of a new waterproofing membrane. Repairs at the lower levels of the garage include concrete patch repairs and sealant replacement. The exact scope of work is as described in detail in the individual bid items in the cost proposal & bid form.

**NOTES:**

- CONTRACTOR TO PROVIDE WORK ACCESS THROUGHOUT THE PROJECT, INCLUDING ACCESS FOR THE ENGINEER FOR THE PURPOSES OF INSPECTING & MARKING REPAIRS.
- APPROPRIATE CONSTRUCTION BARRICADES, SAFE PEDESTRIAN ACCESS ROUTES TO THE STAIRS AND ELEVATORS, ETC. WILL BE PROVIDED BY THE CONTRACTOR TO ENSURE ISOLATION OF WORK AREAS FROM ACTIVE AREAS OF THE BUILDING; AND TO PROTECT BUILDING WORKERS/OCCUPANTS FROM FALLING DEBRIS. ALL REQUIRED EGRESS/INGRESS WILL BE MAINTAINED TO THE PARKING GARAGE AT ALL TIMES.
- THE EQUIVALENT OF APPROXIMATELY ONE FLOOR LEVEL WORTH OF PARKING CAN BE REMOVED AT ANY GIVEN TIME.
- CONTRACTOR SHALL PROVIDE PORTABLE SANITARY FACILITIES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY REMOVAL OF ELECTRICAL AND SECURITY EQUIPMENT AS NEEDED TO PERFORM WORK.
- CONTRACTOR TO PROVIDE ALL SHORING AS REQUIRED AS DIRECTED BY THE ENGINEER.

**STRUCTURAL REPAIRS****Bid Item #1 – New Concrete Overlay at Ramps:**

This bid item includes providing a new 2" bonded topping over the entire floor slabs of the two helical ramps in the parking garage. Contractor shall be responsible for:

- Removal of the existing retrofit concrete topping located at the lower levels of the ramps, assume existing topping is 3", extents of existing topping to be removed are shown on the plans
- Min 1/2" scarification removal of the entire ramp structural slab surface, removing existing asphalt waterproofing, roughening the concrete surface, removing spalled and delaminated surfaces, deleterious materials, etc.
- At locations of spalls and delaminations, remove sound concrete min 3/4" behind exposed rebars, clean rebar to white metal and paint with epoxy coating
- Removal all dust and debris that may inhibit bond of new overlay
- Provide bonding agent over slab surface to receive new topping
- Pour new min. 2.5" thick, WWF reinforced cast in place micro silica & fiber reinforced concrete bonded topping slab over the entire supported ramp slab surface, new topping slab concrete may fill in locations demolished at spalls and delaminations in one pour

**Bid Form (Continued)****TRANSPORTATION CENTER PARKING GARAGE REPAIR  
& PREVENTIVE MAINTENANCE PHASE 1  
(15% MBE & 5% WBE PARTICIPATION)**

- Provide slopes same as existing, or correct slopes as needed to properly drain to existing drains.
- Demo strip of SOG and at extents slope down concrete as needed to match thicknesses
- Broom finish and wet cure
- Provide new tooled and sealed control joints over beams

Contractor shall provide all work, labor, materials, equipment, and incidentals required to perform all work as described above, per the design drawings & specification, as per detail 1 & 2/R-11, per manufacturer's instructions, and as directed by the engineer.

**Bid Item #2 – Partial Depth Repairs**

This work consists of partial depth removal and replacement of floor slab concrete at delaminated and spalled areas (not scheduled to relieve new topping slab). Contractor shall mark the repair areas in the field in the presence of the engineer, provide ½" sawcut around the perimeter of repair, remove delaminated and sound concrete min. 1" minimum behind existing steel reinforcement (or min 1 1/2" from surface of the slab or to sound concrete, whichever is greatest) using light weight chipping hammers, squaring base of opening to create proper butt joint, cleaning exposed steel reinforcement to white metal and painting with new epoxy coating, supplementing with new rebar as needed and as directed by the engineer, prewet and patch using new polymer modified repair mortar or CIP concrete, and provide ½" tooled and sealed joint around perimeter of patch and locations of existing joints using approved multi-component polyurethane sealant. Some patch repairs will be located at existing PT anchors and cables, contractor shall take care not to damage or reduce tension in the PT. At locations of existing waterproofing membrane, contractor shall provide new membrane over the patch, assume approximately 75% of the patches will require new waterproofing. Assume average depth of removal will be 3". Contractor shall perform work as directed by the engineer, manufacturer's installation instructions, as per the design drawings and detail 3 & 4/R-10, and as per applicable sections of the project manual. Item includes all labor, materials, incidentals, and equipment required to perform work.

**Bid Item #3-5 – Vertical & Overhead Patch Repairs**

This work consists of repair of delaminated and spalled locations located at vertical surfaces such as columns & walls as well as at overhead locations such as at parking garage slab soffits & vehicular ramp soffits. Contractor shall provide work access, mark the repair areas in the field in the presence of the engineer, provide shoring as directed by the engineer, provide ½" sawcut around the perimeter of the repair, remove loose and sound concrete min. 1" minimum behind existing steel reinforcement (or min 1 1/2" from surface of the member or to sound concrete, whichever is greatest), squaring base of opening to create proper butt joint, cleaning exposed steel reinforcement to white metal and painting with new epoxy coating, supplementing with new reinforcement as needed and as directed by the engineer, providing new epoxy set stainless steel pins, prewetting and patching the repair areas using polymer modified repair mortar. Some patch repairs will be located at existing PT anchors and cables, contractor shall take care not to damage or reduce tension in the PT. Assume average depth of removal will be 3". Contractor shall perform work as directed by the engineer, manufacturer's installation instructions, as per the design drawings, applicable repair details, and as per applicable sections of the project manual. Item includes all labor, materials, incidentals, and equipment required to perform work. Applicable repair details are Vertical Patch Repairs as per detail 2 & 5/R-10, Overhead Patch Repairs as per detail 1/R-10, Patch Repairs at CJ's as per detail 4/R-10, and "Deep" patch repairs similar to detail 1/R-10 with average depth of removal increased to 8".

**Bid Form (Continued)****TRANSPORTATION CENTER PARKING GARAGE REPAIR  
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(15% MBE & 5% WBE PARTICIPATION)****Bid Item #6 – Vertical/Overhead Patch Repairs at locations of Beam PT Anchors at columns**

This work consists of repair of delaminated and spalled locations along the back sides of the structural columns at locations of the beam PT anchorage. Contractor shall provide work access, mark the repair areas in the field in the presence of the engineer, provide ½” sawcut around the perimeter of the repair, remove loose and sound concrete to expose the corroding surfaces of the PT anchors for cleaning and inspection. Contractor shall NOT remove concrete from behind PT anchor and take extreme care not to damage or detension the PT. Contractor shall clean the exposed reinforcement and exposed surfaces of the PT anchors, etc. to white metal and paint with protective coatings. Contractor shall provide new epoxy set stainless steel pins, prewet and patch the repair areas using polymer modified repair mortar provide all necessary shoring prior to removal of column concrete. Contractor shall perform work as directed by the engineer, manufacturer’s installation instructions, as per the design drawings and detail 8/R-12, and as per applicable sections of the project manual. Item includes all labor, materials, incidentals, and equipment required to perform work. Assume average size of repair to be 3 SF.

**Bid Item #7 – Rebuild spalled portions of ramp beams at bearing:**

Bid item includes repair of the ramp spandrel beams at the locations of bearing above the floor slabs. Contractor to properly shore beams, demolish deteriorated and sound concrete at the bearing locations, clean and paint bearing plate embedded in slab and tack weld new Teflon plate to the support, form repair area, and pour new concrete section with embedded steel bearing plate with Teflon slide onto the ramp beam ensuring continuous contact between the bearing plates. Contractor shall provide new doweling and reinforcement. Contractor shall perform work as directed by the engineer, manufacturer’s installation instructions, as per the design drawings and detail 6/R-10, and as per applicable sections of the project manual. Item includes all labor, materials, incidentals, and equipment required to perform work.

**Bid Item #8 – Scaled Concrete Repairs:**

This item includes repair of scaled & pitted concrete at selected locations of the roof level floor slab. Contractor shall assist the engineer in marking repair locations in the field and provide equipment and work area as required. Contractor shall sawcut min ½” deep around the perimeter of repair, demo 5/8” deep by 6” strip around perimeter of repair area, scarify the surface of the concrete to a min depth of ½”, patch any spalled sections of the substrate, and pour new thin-set repair material in strict accordance with manufacturer’s instructions. Contractor shall “mound up” repair material to a min. thickness of 1”, and level with existing surface around perimeter of the repair. Contractor shall provide all work, labor, materials, equipment, and incidentals required to perform all work as described above, per the design drawings & specification, detail 7/R-10 per manufacturer’s instructions, and as directed by the engineer.

**PREVENTIVE MAINTENANCE AND WATERPROOFING****Bid Item #9-10: – New Traffic Bearing Waterproofing Membrane**

Item 9 - New Traffic Bearing Waterproofing Membrane over the Ramp Floor Slabs/New Bonded Topping: This work consists of heavy shotblast cleaning surface of new concrete topping (to remove surface dirt and fibers) and installation of a new traffic bearing waterproofing membrane system over the ramp supported slabs/new bonded topping. Contractor shall verify new topping has thoroughly cured prior to application of waterproofing, thoroughly clean slab surface, provide new cove joint sealant at all vertical to horizontal interfaces, and install new waterproofing membrane “extra heavy duty” application in strict accordance with specifications. Bid item includes all labor, materials, equipment, incidentals and work access, necessary to complete the work as shown on plans, as per detail 1/R-13 and as per applicable sections of the specification, in strict accordance with the

**Bid Form (Continued)**

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manufacturer, and as directed by the Engineer. **Add Alternate No. 3 “Alternate Material for Base Bid Item #9” shall provide additional cost to use a Poly-Urethane/Epoxy Hybrid System in lieu of the base bid material.**

**Item 10 - New Traffic Bearing Waterproofing Membrane over the Roof Level:** This work item consists of providing a new traffic bearing polyurethane waterproofing membrane over selected sections of the roof level floor slab, to the extent shown in the drawings (Note: Helipad is NIC). Contractor shall shotblast cleaning the surface of floor slab, provide new/replace existing cove joint sealant at all vertical to horizontal interfaces, install new traffic bearing waterproofing membrane system “heavy duty” application method and restripe floor slab after membrane has cured. Bid item includes all labor, materials, equipment, incidentals and work access, necessary to complete the work as shown on plans, as per detail 1/R-13 and as per applicable sections of the specification, in strict accordance with the manufacturer, and as directed by the Engineer.

**Bid Item #11-12 – Replacement of Selected Expansion Joint Seals:**

**Item #11 – Replacement of Bellows Type Seals along Floor Slabs with new Winged Type Seals:** This bid item consists of removal and replacement of all of the existing, compression type bellows expansion joint seals at the ramp to parking garage expansion joint seals, as well as along the roof level floor slab with new winged type seals set in elastomeric header. Contractor shall remove existing expansion joint seal, create new, properly sized block-out and prep block-out to the satisfaction of the manufacturer, and install new, properly sized winged expansion joint seal in strict accordance with manufacturer’s instructions. Contractor shall provide continuous straight runs with splice welding at corners only. Contractor shall use prefabricated corner sections, only 90 degree interfaces may be field heat spliced. Provide floor testing at the end of installation. Contractor shall provide all work, labor, materials, equipment, and incidentals required to perform all work as described above, per the repair detail 2/R-13, as per applicable specifications, per manufacturer’s instructions, and as directed by the engineer.

**Item #12 – Replacement of Compression Seals at Stair Towers/Elevator Core – Roof Level:** This bid item includes removal of the existing compression type expansion joint seals around the perimeter of the stair towers & elevator core at the roof level only and replacement with new silicone faced foam expansion joints seals. New block-out is not required. Contractor shall remove existing seal, clean concrete substrate to receive new seal free of all deleterious material to the satisfaction of the manufacturer, and install new seal in strict accord with manufacturer’s instructions. Provide floor testing at the end of installation. Contractor shall provide all work, labor, materials, equipment, and incidentals required to perform all work as described above, per the repair detail 3/R-13, as per applicable specifications, per manufacturer’s instructions, and as directed by the engineer.

**Bid Item #13 – Replacement of Selected Slab Sealants**

This work includes removal and replacement of selected slab sealants at locations not currently coated with waterproofing membrane, typically located at the slab construction joints at locations of PT anchorage. Contractor shall cut out existing sealant, remove backer rod, grind clean concrete substrate free of all deleterious materials, provide new backer rod, prime and install new polyurethane sealant in strict accordance with manufacturer’s instructions. Contractor shall provide all work, labor, materials, equipment, and incidentals required to perform all work as described above, per the design drawings & specification, as per detail 4/R-13, as per manufacturer’s instructions, and as directed by the engineer.

**Bid Item #14 – Rout and Seal Selected Floor Slab Cracks**

This work consists of routing and sealing selected, leaking or “wide” floor slab cracks at the supported slabs of the parking garage. Contractor shall rout ½” by ½” v-notch groove following the contour of the crack, remove all dust, debris, and clean free of deleterious materials, prime and seal using polyurethane joint sealant. Bid item includes all labor, materials, equipment, and incidentals necessary to complete the work as shown on plans, as per detail 4B/R-13 and as directed by the Engineer and in accordance with manufacturer’s installation instructions.

**ELECTRICAL: LIGHTING****Bid Item #15 – Replacement of Existing Non-LED fixtures with new LED lighting**

This Bid Item includes removal and replacement of the existing non-LED lighting fixtures with new LED fixtures throughout the entire parking garage. Locations include but are not limited to roof level light poles, at the underside of the floor slabs, along the ramp soffits, in stair wells, in the main elevator core/lobby, etc. Contractor is not responsible for replacement of existing lighting at the façade. Existing LED fixtures at the ground floor/underside of the 1st level shall remain. Bid item includes the following:

- Removal and proper disposal of the existing fixtures, bulbs, ballast, etc.
- Replacement of the existing electrical conduit, provide additional electrical conduit as needed. (Note, sections of the existing conduit may be reused if it can be shown to be adequate and in good working order)
- Provide new junction boxes as needed
- Provide new LED fixtures as shown on the drawings. In general, there will be 2 new fixtures per each existing fixture.
- Replace roof level pole lighting with new pole lights with LED fixtures.
- Provide new occupancy sensors at the stair well lighting.
- Provide dusk dawn control to turn off lighting at the outside bays of the garage as well as the roof level lighting, during the daytime hours.

The base Bid item includes all labor, materials, equipment, and incidentals necessary to complete the work as shown on plans, as per the electrical drawings, applicable sections of the specification, as directed by the Engineer and in accordance with manufacturer’s installation instructions **for floors 1 to 3. Add Alternate #6, “Replacement of Non-LED Lighting on Floors 4 to Roof” shall include all labor, materials, equipment, and incidentals necessary to complete the work as shown on the plans, as per the electrical drawings, applicable sections of the specifications, as directed by the Engineer and in accordance with manufacturer’s installation instructions for floors 4 to roof.**

**GENERAL CONDITIONS****Bid Item #16 – Mobilization & Demobilization:**

For setting up all necessary protection and facilities required by State laws and City Ordinances, and the general mobilization and demobilization of equipment required for completion of the work as per Contract Documents and in accordance with material manufacturers recommendations or work ordered by the Engineer. (Maximum Allowance for Mobilization and Demobilization is \$ 15,000 total).

**Bid Form (Continued)**

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**Bid Item #17 – Miscellaneous Work & General Conditions:**

Bid item includes work required to complete the scope of work as outlined in the drawings and specifications that is not specifically identified in the bid form. This includes but is not limited to: incidentals, general conditions, daily cleanup, permits, temporary shoring, traffic control, temporary relocation of MEP, phasing, temporary

signage, temporary protection and barricades, etc. Miscellaneous Work item also includes 25 SF full depth slab repairs and rebuilding of 4' long displaced section of parapet wall at the roof level.

**Bid Item #18 – Payment & Performance Bond:**

This work consists of furnishing a Payment and Performance Bond for 100% of the contract amount.

**Add Alternate No. 2 Repair of P/T Tendons:**

This work item consists of repair of selected broken PT cables that may be uncovered during the course of repair, as directed by the engineer. (Tendons that become detensioned due to the action of construction shall be repaired at no cost to the owner) contractor shall locate point of broken cable, demolish concrete partial and full depth as required, cut out sections of PT cable and anchors as needed, provide new anchors, sections of cable, and splice chucks, and tension tendon to the specified load. Bid item includes all labor, materials, equipment, incidentals and work access, necessary to complete the work as shown on plans, as per the detail on sheet R-12, as per applicable sections of the specification, and as directed by the engineer. Assume 0 – 10 PT repairs will be required for the project.

**Add Alternate No. 4 Replacement of deteriorated stucco façade at Heliport Waiting Room with EIFS**

This work item consists of removal and replacement of the deteriorated cement plaster cladding portions of the roof level core tower façade with a new Exterior Insulation and Finish System (EIFS). Contractor shall remove the existing stucco plaster, metal lathe and cement backer board substrate (assumed) down to metal stud backup wall (assumed). Existing insulation within stud shall be removed and replaced. New 5/8" exterior grade gypsum board to be installed over studs, ensuring that the overall 2 hr fire rating of the wall assembly is maintained, seal gypsum board joints, provide continuous weather barrier, and install new EIFS system over the barrier in accordance with manufacturer's instructions and the design details. Bid item includes all termination detailing at windows, parapets, louvers, extents of installation, expansion & control joints, etc. Assume louvers to be temporarily removed to provide proper terminations, existing windows shall remain in place. Bid item includes all labor, materials, equipment, incidentals and work access, necessary to complete the work as shown on plans, as per EIFS details on sheet R-14 and as per applicable sections of the specification, in strict accordance with the manufacturer, and as directed by the Engineer.

**Add Alternate No. 5 Restriping the Remaining Areas of the Garage**

This work item consists of restriping of floor slabs, including power wash cleaning of the bare concrete floor slabs not scheduled for new traffic bearing membranes and new concrete work.